

Gordon Research Conference  
PROTEOLYTIC ENZYMES AND THEIR INHIBITORS

June 11 - 15, 1990

Holderness School, Plymouth, New Hampshire

Alan J. Barrett, Chairman

Sal V. Pizzo, Vice-Chairman

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*Monday, 9:00 a.m. Introduction, and Serine proteinases I*

Discussion leader: J. Travis

- A. J. Barrett: Molecular and biological diversity of proteinases
- J. C. Powers: Serine proteinases: mechanisms and inhibition
- E. F. Meyer, Jr: Synthetic inhibitors of leukocyte elastase
- M. Orlowski: Multicatalytic proteinase complex

*Monday, 7:30 p.m. Serine proteinases II*

Discussion leader: J. Travis

- J. Tschopp: Lymphocyte cytotoxic proteinases
- D. Hudig: Function of lymphocyte proteases in cell killing

*Tuesday, 9:00 a.m. Cysteine proteinases I*

Discussion leader: A. J. Barrett

- W. Bode: Structure of cysteine proteinases and cystatin
- A. C. Storer: Protein engineering of cysteine proteinases
- E. Shaw: Inhibitors of cysteine proteinases - design and applications
- K. Suzuki: Calpains: structure, activity regulation and function

*Tuesday, 7:30 p.m. Cysteine proteinases II and others*

Discussion leader: A. J. Barrett

- B. Dunn: Kinetics and inhibition of viral processing cysteine proteinases
- D. Prockop: Proteolytic processing of procollagen to collagen

**Wednesday, 9:00 a.m. Aspartic proteinases I and others**

Discussion leader: J. Kay

- M. O. Liveley: Chicken oviduct signal peptidase.
- G. Shelness: Dog pancreatic signal peptidase
- I. M. Samloff: Human gastric aspartic proteinases
- M. N. G. James: Structure and function of aspartic proteinases

**Wednesday, 7:30 p.m. Aspartic proteinases II**

Discussion leader: J. Kay

- J. Kay: HIV and human aspartic proteinases
- A. Wlodawer: Structure of an HIV proteinase/inhibitor complex
- J. Huff: Design and synthesis of HIV-1 proteinase inhibitors

**Thursday, 9:00 a.m. Metallo-proteinases I**

Discussion leader: J. S. Bond

- D. S. Auld: *Astacus* digestive proteinase
- J. S. Bond: Meprin - a plasma membrane proteinase
- J. Kenny: Membrane metallo-endopeptidases
- H. Nagase: Matrix metalloproteinases

**Thursday, 8:00 p.m.**

Business meeting

Poster discussion lead by: S. V. Pizzo

**Friday, 9:00 a.m. Metallo-proteinases II**

Discussion leader: J. S. Bond

- B. H. Igleski: *Pseudomonas* elastase - biology and cloning
- A. G. Plaut: IgA proteinases

**Poster program**

There will be four separate poster sessions, one each day Monday - Thursday.